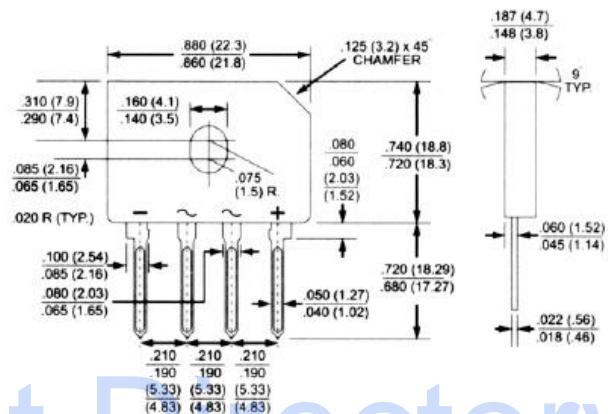
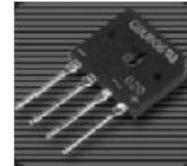


Features

- ◆ Surge overload rating - 175 Amperes peak
- ◆ Ideal for printed circuit boards
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Mounting Position: Any



Datasheet.Directory

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbols	GBU6005	GBU601	GBU602	GBU604	GBU605	GBU608	GBU610	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current @ $T_c=100^\circ\text{C}$ (with heatsink Note 2) (without heatsink)	I_{FAV}					6.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}					175.0			Amps
Max. instantaneous forward voltage drop at 3.0A DC	V_F					1.0			Volt
Maximum DC reverse current at rated DC blocking voltage per element @ $T_j=25^\circ\text{C}$ @ $T_j=125^\circ\text{C}$	I_R					5.0			μA
Rating for fusing ($t < 8.3\text{ms}$)	I^2t					127			A^2sec
Typical junction capacitance per element (Note 1)	C_j					50			pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$					2.2			$^\circ\text{C/W}$
Operating temperature range	T_j					-55 to +150			$^\circ\text{C}$
Storage temperature range	T_{STG}					-55 to +150			$^\circ\text{C}$

- Notes:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
 2. Device mounted on 75mmx75mm x 1.6mm Cu plate heatsink

GBU6005 thru GBU610

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

